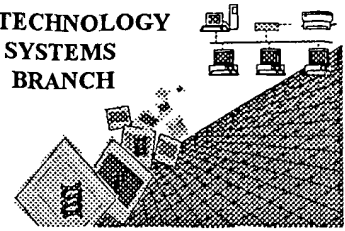


ep

BIOTECHNOLOGY
SYSTEMS
BRANCH**RAW SEQUENCE LISTING**
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/663,208
Source: OIP
Date Processed by STIC: 9/26/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003



OIPE

RAW SEQUENCE LISTING

DATE: 09/26/2003

PATENT APPLICATION: US/10/663,208

TIME: 14:32:20

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\09262003\J663208.raw

3 <110> APPLICANT: Altmann, Scott W
 4 Wang, Luquan
 5 Graziano, Michael
 6 Murgolo, Nick
 10 <120> TITLE OF INVENTION: NPC1L1 (NPC3) AND METHODS OF USE THEREOF
 12 <130> FILE REFERENCE: JB01603-K2-US
 13 <140> CURRENT APPLICATION NUMBER:
 15 <141> CURRENT FILING DATE: 2003-09-16
 17 <150> PRIOR APPLICATION NUMBER: 60/397,442
 19 <151> PRIOR FILING DATE: 2002-07-19
 21 <150> PRIOR APPLICATION NUMBER: 10/621,758
 23 <151> PRIOR FILING DATE: 2003-07-17
 25 <150> PRIOR APPLICATION NUMBER: 10/646,301
 27 <151> PRIOR FILING DATE: 2003-08-22
 29 <160> NUMBER OF SEQ ID NOS: 50
 31 <170> SOFTWARE: PatentIn version 3.1

ERRORED SEQUENCES

1800 <210> SEQ ID NO: 10
 1801 <211> LENGTH: 3993
 1802 <212> TYPE: DNA
 1803 <213> ORGANISM: Rattus sp.
 1805 <400> SEQUENCE: 10

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 E--> 1808 aayccngary tnwsnggngg nytnacnwsn ytnwsnaayg tnwsntgyyt nwsnaayacn 180
 E--> 1809 ccngcnmgnc aygtnacngg ngarcayytn gcnytntnc armgnathtg yccnmgnyt 240
 E--> 1810 tayaayggnc cnaayacnac nttygcntgy tgywsnacna arcarytnt nwsnytngar 300
 E--> 1811 wsnwsnatgw snathacnaa rgnytntn acnmngtgyc cngcntgyws ngayaaytty 360
 E--> 1812 gtnwsnytn cnytgycayaa yacntgywsn ccngaycarw snytnttyat haaygtnacn 420
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 E--> 1814 carmgwnsnt tygcngaraa rgcntaygar wsntgywsnc argtnmgntat hccngcngcn 540
 E--> 1815 gcnwsnytn cngtngngws natgtgyggg gtntayggngw sngcnytnng yaaygcncar 600
 E--> 1816 mgntgygyna ayttcargg ngayacnggn aayggnytn cncnytnnga yathacntty 660
 E--> 1817 cnytyntng arcngngnca rgnytntccn gayggntat arcnytnaa yggnaarath 720
 E--> 1818 gcnccntgya aygarwsnca rggngaygay wsngcngtnt gywsntgyca rgaytgygcn 780
 E--> 1819 gcnwsntgy cngtnathcc nccncngar gcnymngnc cnwsnttyta yatggngmgn 840
 E--> 1820 atgccnggnt ggytngcnyt nathathath ttyacngcng tnttygntyt nytnwsngcn 900
 E--> 1821 gtnytngtnm gnytnmgnt ngtnwsnaay mgnayaaara ayaargcnga rggncncar 960
 E--> 1822 gargncnca arytnccna yaarcayaar ytnwsnccnc ayacnathyt nggnmgntty 1020
 E--> 1823 ttycaraayt ggggnacnmg ngtnngcnwsn tggccnytna cngtntngc nytnwsntty 1080

Does Not Comply
 Corrected Diskette Needed

*Per sequence rules, n's need to be explained.
 See p. 5 for error explanation*

same errors

RAW SEQUENCE LISTING

DATE: 09/26/2003

PATENT APPLICATION: US/10/663,208

TIME: 14:32:20

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\09262003\J663208.raw

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E--> 1825 garytntggw sngcncnaa rwsncargcn mgnaargara arwsnttyca ygaygarca 1200
E--> 1826 ttyggncnt tyttymgnac naaycarath ttygtnacng cnmgnaaymg nwsnwsntay 1260
E--> 1827 aartaygayw snytnytnyt nggnwsnaar aayttywsng gnathytnws nytngaytty 1320
E--> 1828 ytnyngary tnytngaryt ncargarmgn ytnmgncay tncargtntg gwsnccngar 1380
E--> 1829 gcngarmgna ayathwsnyt ncargayath tgytaygcnc cnytnaaycc ntayaayacn 1440
E--> 1830 wsnytnwsng aytgytgygt naaywsnytn ytncartayt tycaraayaa ymgnaacnytn 1500
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E--> 1832 cayttyytn aytgycnaa ygcncnytn acnttyaarg ayggnaacnw nytngcnytn 1620
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E--> 1837 ytnargayg arathaaymg nacnacnath cargaytnc cngtnttygc ngtnwsntay 1920
E--> 1838 athathgtnt tyyntayt hwsnytnngcn ytnngnwsnt aywsnmgtg ywsnmngtn 1980
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E--> 1860 ytnmgnaarg tncnggnac ngayccnaa ttypargtnt tyccntayac nathwsnaay 3300
E--> 1861 gtnttytay arcartayt nacngtnytn ccngarggna thtyacny ngcnytny 3360
E--> 1862 ttypngcna cnttygtng ntgytayytn ytnytnngny tngaytgty ywsnggnath 3420
E--> 1863 ytnaayytny tnwsnathat hatgathytn gtngayacna thggnytnat ggngtntgg 3480
E--> 1864 ggnathwsnt ayaaygcngt nwsnytnath aayytnngtna cngcngtngg natgwsngtn 3540
E--> 1865 garttygtw sncayathac nmgnwsntty gcngtnwsna cnaarccn nmgnytngar 3600
E--> 1866 mgngcnaarg aygcnaacng nttyatgggn wsngcngnt tygcngngnt ngcnatgacn 3660
E--> 1867 aaytyccng gnathytnat hytnngntty gcncargcnc arytnathca rathtytyt 3720
E--> 1868 ttypngnytn ayytnytnat hacnytnytn ggnnytnytn ayggnytngt nttyytnccn 3780
E--> 1869 gtngtnytnw sntayytnng nccngaygt aaycargcny tngtncarga rgaraarytn 3840
E--> 1870 gcnwsngarg cngcngtngc nccngarccn wsntgyccnc artayccnws nccngcngay 3900
E--> 1871 gcngaygcna aygtnaayta yggnttygc ccngarytn cncayggngc naaygcngcn 3960
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Same errors

RAW SEQUENCE LISTING

DATE: 09/26/2003

PATENT APPLICATION: US/10/663,208

TIME: 14:32:21

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\09262003\J663208.raw

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2576 <211> LENGTH: 3999

2577 <212> TYPE: DNA

2578 <213> ORGANISM: Mus sp.

2580 <400> SEQUENCE: 13

same error

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| E--> 2582 | garytnntaya | cnccnacnca | yaargcnggn | ttytgyacnt | tytaygarga | rtgyggnaar | 120 |
| E--> 2583 | aayccngary | tnwsngngng | nytnacnwsn | ytwnsnaaya | thwsntgyyt | nwsnaayacn | 180 |
| E--> 2584 | ccngcnmgnc | aygtnacngg | ngaycaytn | gcnytnytn | armngtntg | yccnmgnyt | 240 |
| E--> 2585 | tayaayggnc | cnaaygayac | ntaygcntgy | tgywsnacna | arcarytngt | nwsnytngay | 300 |
| E--> 2586 | wsnwsnytnw | snathacnaa | rgcnytnytn | acnmgtngyc | cngcntgyws | ngaraaytty | 360 |
| E--> 2587 | gtwnsnathc | aytgycayaa | yacntgywsn | ccngaycarw | snytnttyat | haaygtnacn | 420 |
| E--> 2588 | mgngtngtnc | armngaycc | nggncarytn | ccngcngtng | tngcntayga | rgcnttytay | 480 |
| E--> 2589 | carmgnwsnt | tygcngaraa | rgcntaygar | wsntgywsnm | gngtnmgnt | hccngcngcn | 540 |
| E--> 2590 | gcwnsnytn | cngtnggnws | natgtgygg | gtntayggw | sngcnytn | yaaygcncar | 600 |
| E--> 2591 | mgntgggytna | ayttycargg | ngayacnggn | aayggnytn | cnccnytn | yathacntty | 660 |
| E--> 2592 | cayytnytn | arccnggnca | rgcnytn | gayggntga | arccnytn | yggnaarath | 720 |
| E--> 2593 | acncntgya | aygarwsnca | rggngargay | wsngcngcnt | gywsntgyca | rgaytgygc | 780 |
| E--> 2594 | gcwnsntgy | cngtnathcc | nccncncnc | gcnytnmgnc | cnwsnttya | yatgggnmg | 840 |
| E--> 2595 | atgccngnt | ggytngcny | nathathath | ttyacngcng | tnttygnt | nytnwsngt | 900 |
| E--> 2596 | gtnytngtnt | ayytnmgnt | ngcnwsnaa | mgnaayaara | ayaaracng | nggnwsncar | 960 |
| E--> 2597 | gargcnccna | ayytnccnm | naarmgmgn | ttywsncnc | ayacngnt | nggnmgntty | 1020 |
| E--> 2598 | ttygarwsnt | gggnacnm | ngtngcnwsn | tggccnytn | cngtntngc | nytnwsntty | 1080 |
| E--> 2599 | athgtngtna | thgcnynws | ngtnggnytn | acnttyathg | arytnacnac | ngayccngtn | 1140 |
| E--> 2600 | garytntgw | sngcnccnaa | rwsncargcn | mgnaargara | argcnttyca | ygaygaray | 1200 |
| E--> 2601 | ttyggncnt | tyttymgnac | naaycarath | ttygtnacng | cnaaraaymg | nwsnwsntay | 1260 |
| E--> 2602 | aartaygayw | snynytnyt | nggncnaar | aayttywsng | gnathytnws | nytngayytn | 1320 |
| E--> 2603 | ytncargary | tnytngaryt | ncargarmgn | ytngmncayy | tncargtntg | gwsncaygar | 1380 |
| E--> 2604 | gcncarmgna | ayathwsnyt | ncargayath | tgytaygcnc | cnytnaaycc | ncayaayacn | 1440 |
| E--> 2605 | wsnytnacng | aytgytgyt | naaywsnytn | ytncartayt | tycaraayaa | ycayacnytn | 1500 |
| E--> 2606 | ytynytnytna | cngcnaayca | racnytnaay | ggncaracnw | snytngtnga | ytggaargay | 1560 |
| E--> 2607 | cayttyytnt | aytgygcnaa | ygcncnytn | acntayaarg | ayggnacngc | nytnngcnytn | 1620 |
| E--> 2608 | wsntgyathg | cngaytaygg | ngcncngtn | ttyccnttyy | tngcngtngg | nggntaycar | 1680 |
| E--> 2609 | ggnacngayt | aywsngargc | ngargcnytn | athathacnt | tywsnathaa | yaaytayccn | 1740 |
| E--> 2610 | gcngaygayc | cnmgntggc | ncaygcnaar | ytntgggarg | argcnttyyt | naargaratg | 1800 |
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| E--> 2612 | ytngargayg | arathaaymg | nacnacnath | cargayytn | cngtnttygc | nathwsntay | 1920 |
| E--> 2613 | ytathgtnt | tyytnayay | hwsnytn | ngcnytn | aywsnmgtng | gwsnmgtng | 1980 |
| E--> 2614 | gcngtngayw | snaargcnac | nytnngnytn | ggngngtng | cngtngtnt | nggngcngtn | 2040 |
| E--> 2615 | gtngcngcna | tgggnttyta | ywsntayytn | ggngtncnw | snwsnytn | nathathcar | 2100 |
| E--> 2616 | gtngtncnt | tyytngtnt | ngcngtngn | gcngayaaya | thtttyatht | ygtntngar | 2160 |
| E--> 2617 | taycarmgny | tnccnmgnat | gcngngngar | carmngngarg | cncayathgg | nmgnacnytn | 2220 |
| E--> 2618 | ggwnsngtng | cnccnwsnat | gytnytn | wsnytnwsng | argcnathg | yttytyytn | 2280 |
| E--> 2619 | ggngcnytna | cnwsnatgcc | ngcngtnmg | acnttygcny | tnacnwsngg | nytnngcnath | 2340 |
| E--> 2620 | athttgyayt | tyytnytnca | ratgacngcn | ttygtngcny | tnytnwsnyt | ngaywsnaar | 2400 |
| E--> 2621 | mgncargarg | cnwsnmgncc | ngaygtngtn | tgytgyttyw | snwsnmgnaa | yytnccncn | 2460 |
| E--> 2622 | ccnaarcara | argargnytn | nytnytn | ttytymgna | arathtayac | nccnttyytn | 2520 |
| E--> 2623 | ytncaymgnt | tyathmgnc | ngtngtnt | ytntnttyy | tngtntntt | yggngcnaay | 2580 |
| E--> 2624 | ytntayytna | tgtgyaayat | hwsngtngn | ytngaycarg | ayytnngcny | nccnaargay | 2640 |

RAW SEQUENCE LISTING

DATE: 09/26/2003

PATENT APPLICATION: US/10/663,208

TIME: 14:32:21

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\09262003\J663208.raw

same errors

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E--> 2625 wsntayyttna thgaytaytt yytnttyytn aaymgntayy tngargtngg nccnccngtn 2700
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E--> 2627 wsnwsngcng gntgygarws nttywsnytn acncaraara thcartaygc nwsngartty 2820
E--> 2628 ccnaaycarw sntaygtngc nathgcngcn wsnwsntggg tngaygaytt yathgaytgg 2880
E--> 2629 ytnacnccnw snwsnwsntg ytgymgnath tayacnmng gncncayaa rgaygartty 2940
E--> 2630 tgyccnwsna cngayacnws nttyaaytgy ytnaaraayt gyatgaaymg nacnytnggn 3000
E--> 2631 ccngtnmgnc cnacnacnga rcarttycay aartayytnc cntgggttyt naaygayacn 3060
E--> 2632 ccnaayathm gntgyccnaa rggnggnytn gcngcntaym gnacnwsngt naayytwnsn 3120
E--> 2633 wsnngayggnc arathathgc nwsncartty atggcntayc ayaarccnyt nmgnaywsn 3180
E--> 2634 cargayttya cngargcnyt nmngncnwsn mgnytnytng cngcnaayat hacngcngar 3240
E--> 2635 ytnmgnaarg tncnggnac ngayccnaay ttygargtnt tyccntayac nathwsnaay 3300
E--> 2636 gtnttytayc arcartayyt nacngtnytn ccngarggna thttyacnyt ngcnytnngy 3360
E--> 2637 ttygtncna cnttygtngt ntgytayytn ytnytnggny tngayathmg nwsnggnath 3420
E--> 2638 ytnaayytny tnwsnathat hatgathytn gtngayacna thggnytnat ggcngtntgg 3480
E--> 2639 ggnathwsnt ayaaygcngt nwsnytnath aayytngtna cngcngtngg natgwsngtn 3540
E--> 2640 garttygtnw sncayathac nmgnwsntty gcngtnwsna cnaarccnac nmgnytngar 3600
E--> 2641 mgngcnaarg aygcnacnat httyatgggn wsngcngtnt tygcnggngt ngcnatgacn 3660
E--> 2642 aayttyccng gnathytnat hytnggntty gcncargcnc arytnathca rathttytty 3720
E--> 2643 tтымгnytna ayytnytnat hacnytnytn ggnytnytn ayggnytngt nttyytnccn 3780
E--> 2644 gtngtnytnw sntayytngg nccngaygt nccngaygt aaycargcny tngtnytnga rgaraarytn 3840
E--> 2645 gcnacngarg cngcnatggt nwsngarccn wsntgyccnc artayccntt yccngengay 3900
E--> 2646 gcnaayacnw sngaytaygt naaytaygg nttayayccng arttyathcc ngarathaay 3960
E--> 2647 gcngcnwsnw snwsnytncc naarwsngay caraartty 3999

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VARIABLE LOCATION SUMMARY

DATE: 09/26/2003

PATENT APPLICATION: US/10/663,208

TIME: 14:32:22

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\09262003\J663208.raw

Use of n's or Xaa's(NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

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Seq#:10; N Pos. 687,690,696,705,708,714,723,726,738,744,753,756,759,765,780
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VARIABLE LOCATION SUMMARY

DATE: 09/26/2003

PATENT APPLICATION: US/10/663,208

TIME: 14:32:22

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Output Set: N:\CRF4\09262003\J663208.raw

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VERIFICATION SUMMARY

DATE: 09/26/2003

PATENT APPLICATION: US/10/663,208

TIME: 14:32:22

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